

Overview of Teaching and Learning of Maths

Intent

Our maths curriculum is designed to develop fluency, reasoning, problem solving and an ability to undertake investigations, these skills can then be applied across other areas of the curriculum. It is seen as essential to everyday life and these links are made apparent wherever possible. It is also valued as necessary for an individual's financial literacy and most forms of employment. Through our maths teaching we aim to provide a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

The Big Ideas

Fluency – children develop their fluency with mathematical fundamentals and procedures developing the ability to recall and apply knowledge rapidly and accurately

Problem Solving – children develop their ability to read, understand, hypothesise, solve and check a range of differently worded problems with increasing sophistication, including breaking down a problem into a series of simpler steps and persevering in seeking solutions

Reasoning – children develop their ability to explain their understanding of a process by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument justification or proof using mathematical language

Implementation

- Move fluently between different representations of mathematical ideas.
- Make increasingly complex connections from one mathematical domain to another to develop fluency, mathematical reasoning and competence in solving increasingly complex problems.
- Apply mathematical knowledge to science and other subjects including outdoor activities working collaboratively across the school.
- Apply fluency, reasoning and problem skills to solve a variety of investigations within and across domains.
- Develop an increasingly varied and accurate understanding of mathematical vocabulary that is recalled and applied regularly.
- Develop resilience within their working to allow for the making of mistakes, discussion of these and any misconceptions to allow for more sustained future progress.
- Pride in the presentation of work celebrated through display or school rewards.

Impact

By the end of their schooling at Hintlesham and Chattisham C of E Primary School, pupils will have been given the opportunity to apply their fluency knowledge through solving a variety of different problems, fluency tasks and investigations. They will have developed confidence and mental fluency through a range of topics, for example, the four operations, number and place value, measure and shape including with practical resources at each stage. Pupils will also be able to read, spell and use accurately a range of mathematical language.